WHAT IS CLAIMED IS:

1. A method of producing a metal mesoporphyrin halide comprising:

isolating a mesoporphyrin formate; and converting the mesoporphyrin formate to a metal mesoporphyrin halide.

- 2. The method of claim 1, wherein the mesoporphyrin formate is converted directly to a metal mesoporphyrin halide.
- 3. The method of claim 1, wherein the mesoporphyrin formate is first converted to mesoporphyrin dihydrochloride and the mesoporphyrin dihydrochloride is converted to the metal mesoporphyrin halide.
- 4. The method of claim 3, wherein the mesoporphyrin dihydrochloride is reacted with insert metals to form the metal mesoporphyrin halide.
- 5. The method of claim 3, further comprising purifying the mesoporphyrin formate in the presence of a metal scavenger.
- 6. The method of claim 5, wherein the metal scavenger includes Si-thiol.
- 7. The method of claim 4, further comprising catalytically hydrogenating hemin in the presence of an acid to form the mesoporphyrin formate.

- 8. The method of claim 7, wherein the step of catalytically hydrogenating the hemin occurs in two steps.
- 9. The method of claim 8, further comprising heating a mixture of hemin and a hydrogenation catalyst under pressure at a first temperature for a first period of time and subjecting the mixture to a second temperature under pressure for a second period of time.
- 10. The method of claim 9, wherein the first temperature is higher than the second temperature.
- 11. The method of claim 1, wherein metal mesoporphyrin halide is a tin mesoporphyrin halide.
 - 12. The process of claim 10, further comprising:
- a) subjecting a reaction mixture of hemin and a hydrogenation catalyst in an acid to hydrogen pressure of about 30-65 psi and then raising the temperature to about 85-95° C and maintaining the temperature within that range for a period of about 1-3 hours;
- b) subjecting the reaction mixture to a further hydrogen pressure of about 30-65 psi at a temperature range of about $45-50^{\circ}$ C for a period of about 24-48 hours; and
- c) recovering the formate salt of mesoporphyrin IX from the reaction mixture by precipitation of the mixture with a solvent.
- 13. The process of claim 7, wherein the acid is formic acid.

- 14. The process of claim 12, wherein the solvent is an ether.
- 15. The process of claim 14, wherein the solvent is methyl tert-butyl ether.
- 16. The process of claim 15, wherein the hydrogenation catalyst is palladium on carbon.
- 17. The method of claim 1, wherein the quantity of metal mesoporphyrin halide formed by the process exceeds 0.1 kg.
- 18. The method of claim 1, further comprising purifying the metal mesoporphyrin halide, including:
- a) dissolving the metal mesoporphyrin halide in an aqueous basic solution to obtain a dissolved metal mesoporphyrin halide;
- b) treating said dissolved metal mesoporphyrin halide
 with charcoal to obtain a treated metal mesoporphyrin halide;
- c) adding said treated metal mesoporphyrin halide to a first aqueous acid solution to obtain a precipitated metal mesoporphyrin halide;
- d) triturating said precipitated metal mesoporphyrin halide in a second aqueous acid solution at elevated temperature to obtain a substantially pure metal mesoporphyrin halide; and
- e) drying said substantially pure metal mesoporphyrin halide.
- 19. The process of claim 18, wherein the metal mesoporphyrin halide is tin (IV) mesoporphyrin IX chloride.

20. A method of producing stannsoporfin comprising: isolating mesoporphyrin IX formate in substantially pure, solid form; and

converting the mesoporphyrin IX formate to stannsoporfin.

- 21. The method of claim 20, further comprising converting the mesoporphyrin IX formate to mesoporphyrin IX dihydrochloride and reacting the mesoporphyrin dihydrochloride with a tin insert metal to form stannsoporfin.
- 22. The method of claim 21, further comprising purifying the mesoporphyrin formate with a metal scavenger.
- 23. The method of claim 22, wherein the metal scavenger includes a silica bound metal scavenger.
- 24. The method of claim 23, further comprising purifying the stannsoporfin to provide pharmaceutical grade stannsoporfin.